Secrt. II-27—100,000—21-5-52.

Education (1952) Department.

Ms. SERIES.

G.O. No. 2354

Dated 9—10—52

[Despatch Abstract.]

Secondary Education - Introduction of Printing Technology as a subject of study under the scheme of Bifurcated course for the Secondary School Leaving Certificate examination — Syllabus - Approved.

Copy of Reference.No.Roc.419 G.6/51 from the Director of Public Instruction, Madras, to the Secretary to Government Education Department, Madras, dated 28.7.1952.

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Sub: Schools- Secondary-Bifurcated courses-Introduction of Printing Technology-1952-53-Syllabus-Approval of

Ref: Government Memo.No.28802 B/51-4 Edn.dated 29.9.1951.
2.My letter Rc.419 G.6/51 dated 22.10.1951.

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In continuation of para 3 of my letter quoted above, I herewith submit a copy of the draft syllabus in printing Technology as suggested by the Sub-Committee and approved by the Secretary and the Members of the Board of Secondary Education, for favour of according the approval of Government

2. The names of the schools proposed to be selected for the introduction of Printing Technology will be suggested soon after the syllabus is approved by the Government. In this connection kind attention is also invited to para 3 of my letter Rc.583 G.6/51 dated 1.4.52.

3. I request the favour of early orders on the matter.

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MINUTES OF THE MEETING OF THE SUB COMMITTEE IN PRINTING TECHNOLOGY

The fourth meeting of the Sub-Committee in printing Technology took place at the Office of the Director of Public Instruction, on Thursday the 3rd instant, at 6-15 p.m. The following were present.

1. Sri Sreeramulu, Head of the Department of Printing Technology, Central Polytechnic, Madras.
2. Sri M.R. Srinivasan, Deputy Superintendent, Government Press, Madras.
3. Sri P. Duraikannu Mudaliar, Headmaster, Chintadripet Boys High School, Chintadripet, Madras.
4. Sri A.G. Anderson, Retired Deputy Superintendent, Government Press, Madras.
5. Technical Education Officer, and
6. Deputy Director of Public Instruction, (Finance)

The syllabus prepared by Sri Srinivasan was adopted with slight modifications. It was not possible to apportion the syllabus to the three years as it is not possible to state at this stage how for the children would be able to comprehend the portion so sub-divided.

The portion of the syllabus under Science and Arithmetic could be handed by the Science and Mathematics masters if so desired.

Only English composing is envisaged. Medium of Instruction is to be English. The number of periods would be same as for

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other pre-technological courses.(viz. 13 periods in the IV Form, 15 periods in the V and VI Forms, including the four periods to be allotted for General Science). The subjects to be taken along with printing technology would be the same as with other pre-technological courses.

Staff		Qualification	Pay.
1. Instructor in Printing Technology.	one	Licentiate in Printing Technology (L.P.T. with 3 years practical experience after diploma .	125.10.200
2. Demonstrator (Machine minding)	one	III form completed, plus 10 years' experience in a letter-press machine minding department of a reputable firm of printing. (Preference to be given to one with a good knowledge of English)	100-5-125-10.150
3. Demonstrator (book-binding)	one	III form completed plus 10 years' experience in a letter-press stationery and binding department of a reputable firm of printing. (Preference to be given to one with a good knowledge of English)	100-5-125-10-150

The number of students to be admitted to the course may be restricted to thirty.

EQUIPMENT AND COST: Sri Sreeramulu, Head of the Department of Printing, Central Poly-Technic, has been requested to draw up a list of equipment required and the approximate cost, with a request to try and limit the cost to Rs.11,000/-. The contingent expenditure is expected to be in the region of Rs.2,000/- per annum but it was expected to be met by a reasonable income. The accommodation recommended for the work room is a long hall about 60' x 40'.

EXAMINATION: Three theory papers: (A) Composing and proof-reading; (b) Machine-minding and (c) Book binding; and three practicals; (a) composing; (b) Machine minding and (c) book-binding.

COMPOSING AND PROOF READING:

I. COMPOSING:

Appliances and Materials used in Composing rooms; Technical terms in every-day use; Description and parts of type, Qualities of good type, Relationship of type bodies and their proportion to space; Lays of the case; Characters in a fount; Attitude at the frame; Rules to remember when setting; Habits to acquire and avoid; Rules for spacing and justifying; Rules for distribution.

Technical terms; making up, Principles of imposition; Type Composition; Locking up and unlocking; Setting up tabular work; Casting off; Signature and their uses; Description of Sterco, Electro and Process blocks; Weights of types and leads; Typographical problems.

PRACTICAL: Demonstration of the various appliances used in the composing room; Practical Demonstration of the various parts of

types; Practical demonstration of the relationship of type bodies; Practical tests in sorting out pie; studying the lays of cases, (M Both English and Regional Language) Distribution; Composition.

Speed tests in Composing and distribution; Locking up and un-locking; Making up.

II. PROFF READING

Marks used for correcting; Operations performed by Readers; Correct use of capitals, Small Capitals and Italics; Common errors in composing and making up matter.

Letters reference makes peculiar accents & sizes in general use and their meaning; Recognised rules for the use of various sizes and kinds of types, orthography; spacing out; ordinary abbreviations and contractions; Sizes and sub-divisions of printing, writing papers and cards; Reading of page proofs and forms proofs, checking machine revise; Imposition of simple forms; Parts of a book, the type used and the style adopted; System and object of indention.

PRACTICAL: General English and Grammar; Use of figures and numerals; Rules for division of words, Punctuation.

Demonstration of practical proof correctiom and explanation of the marks used; Tests in Grammar and English; Practice at proof correction.

Practical proof correction; Reading of fair proofs; Passing proof for printing.

MACHINE AND PRESS WORK.

Size and sub-division of papers and cards; No. of sheets in quires and reams; chases and furniture; Technical Terms; Description of ready on hand press; Making register-Washing formes; Rollers-Composition and working condition.

Simple schemes of imposition; Description of Sterictypes, Electro, process blocks and three colour process; Technical terms; Platen and Cylinder machines; ~~Preparing~~ Preparing a platen for make ready; Dressing a Cylinder; care of ink; Cleaning of wood, Electro and Process blocks; Mounting of plates.

PRACTICAL: Demonstration of the various sizes of papers and cards; Demonstration of chases and furniture; Practical demonstration of the principle of obtaining impression on hand presses; Making ready and printing on hand presses.

Demonstration of the Mechanical features of Platen machine; Packing the platen; Locking up and preparing the forms; Making ready and printing off.

BOOK BINDING AND PRINTING WAREHOUSE.

Various branches and Operations in book-binding; sizes and sub-divisions of printing and writing papers and relative weights; Machines, tools and materials required for executing letter press and stationery work; Signatures and their uses; Folding, gathering, collating, stabbing, sewing and overcasting..

Technical Terms; Common sizes of books; Different methods of sewing; Quarter and half binding; Blind emobossing; Case Work and ordinary binding; Mode and treatment of paper before and after printing. Differences between each description of paper; Numbering; perforating; Ruling; Envelop making.

~~PRACTICAL:~~

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PRACTICAL:

Demonstration of the various tools and materials used in binding; Preparation of paste and glue; Folding-Folio, Quarto, Octave, 16vo; speed tests in folding; Gathering and collating; Stab stitching and wrappering.

Speed tests in folding, gathering, collating, practical sewing, practical forwarding; Numbering, Casemaking, printing, Envelope making.

The following firms may be consulted for the purchase of Composing room equipment and Types.

1. Indian Type Foundary, Sami Pillai Street, Choolai, Madras.
2. Swadesi Type Foundary, 51, Guruvappa Chetty Street, Chintadripet, Madras-2.
3. Nelson and Company, 62, Swami Pillai Street, Choolai, Madras.
4. The Madras Type Foundry, 38, Jones Street, Madras-1.
5. Norton and Company, Choolai, Madras.
6. Wilson and Company, Royapuram, Madras.

COMPOSING ROOM EQUIPMENT

1. Composing Frames (Wooden) 3/4 Nos. 12, to hold atleast 6 cases.
2. Composing cases--30 Pairs (Upper and Lower)
3. " Duble cases.- 12 Nos.
4. " Treble cases--6 Nos.
5. Rule case .. 1 No.
6. Lead case. .. 1 No.
7. Boarder cases. .. 2 Nos.
8. Imposing stone (mounted D' corwn size with 2 drawers underneath) 2 Nos.
9. Lead and Protector. 1 No.
10. Mitring Machine. 1 No.
11. Galleys

Duble fold-Pressed steel galleys.
if not available brass bottom galleys
in assorted sizes 10" x 6¾" 24 Nos.
13" x 8¾" 12 Nos.
(Column galleys) 24" x 6¾" 6 Nos.

12. Self Locking galley 2 Nos.
13. Composing stick. 6" 10 Nos.
8" 6 Nos.
12" 3 Nos.
14. " inside screw 1 No.
" outside screw. 1 No.
" Thumb driver. 1 No.
15. Shooting stick Kylonite. 6 Nos.
16. Wooden Banners. 3 Nos.
17. Malle 3 Nos.
17-A. Bodkins & Tweezers. 6 Nos. in each.
18. Steel interlocking furniture (assorted size(1 set.

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19. Light metal furniture (Wooden Stone) 1 set.
20. Metal ~~xxx~~ furniture (Assorted sizes) 1 set.
21. Wrought Iron Classes,
    17 inches long Jobbing chases cronwnfolio 2 Nos.
    Long frame chases foolscap 19" x 7½" 2 Nos.
    Heading Chases 19" x 6" 2 Nos.
22. Lye Brush 3 Nos.
23. Side Sticks Assorted size 6" to 8", 9" to 15", 16" to 24".
24. Wooden Quoins (Assorted) 500 Nos.
25. Mechanical Quoins (Availables)
    Notting, Wickersham, Hempel, Precision Register etc.
26. Brass Rules--1½ point.
    Plain, Dotted Waved, each 8 point. 1 Dozen.
    Duble medium, Tuick and thin milled each 1 dozen.
27. Machine case leads 1½ pt., 2 Pt. and 3 pt. 50 lbs in each.
28. Clumps 6 pt. 12 pt, 25 lb in each.
29. Quotations assorted 2 x 4 ems, 3 x 4 ems. ems and 6 and 4 ems.... 20 lbs each.

30. Galeey Rack. 2 Nos.
31. Case Racks. 1 No.
32. Type Scale. 2 Nos.
33. Type High Numbering Machine forward and backward. 1 in each.
34. Galley Proof Press (Five Wheels) 1 No.

TYPES

BOOK FACES

Roman Mone	No.7	10 pt.	600 lb.
Italic "	"	10 pt.	120 lb.
Roman Mone	"	3 pt.	60 lb.
Italic "	"	8 Pt.	30 lb
Mone bold.	"	10 pt.	1 Fount.

JOB FACES.

Bodoni Roman	14 pt. 18 pt. 24 pt. 30 pt.	2 Founts in each
Bodoni	14 pt. 13 pt. 24 pt. 30 pt.	One fount in each.
Bodoni Bold.	24 pt. 30 pt.	One fount in each
Rockwell	18 pt. 24 pt. 30 pt.	2 founts in each.
Rockwell ~~xxxxx~~ Heavy.	10 pt. 12 pt. 24 pt.	2 founts in each.
Gill Sans Light	8 pt. 10 pt. 12 pt. 14 pt.	~~xxxxxxxxxxxx~~ 2 founts in each
-do- medium	8 pt. 10 pt. 12 pt.	~~One~~ 2 fount in each

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Gill Sans Bold.	10 pt. I 12 pt. I 14 pt. I 18 pt. I	One fount in each.
SCRIPT.	18 pt. I 24 pt. I	2 founts in each
Artisan Light.	14 pt. I 18 pt. I 24 pt. I	1 fount in each
" Bold.	14 pt. I 18 pt. I 24 pt. I	one fount in each.

Superior figures, Inferior figures split fractions, 11 pt. 8 pt. one lb. in each.

Broders- good borders.
Quads 1 em, 2 em, 3 em, and 4 em.
10 points Each 50 lb.
8 points " 20 lb.

Spaces--En, Thick, Middle and thin.
10 pt. 50 lbs in thick.
(En & Middle) Others 20 lbs in each.
Thin 10 lb.
8 pt. EN 12 lb.
Thick 24 lb.
Middle & Thin 6 lb in each.
-do- 30 pt. 24 pt, 18, 14 and 12 pt.

En Space 10 lb in each.
Thick space 12 lb in each
Middle & Thin 6 lb in each.

Quads for 30 pt. 24 pt, 18 pt, 14 pt, and 12 pt. Approx for com Rs.60

about 12 lb in each (2 em, 2 em, 3 em, and 4 em of the point body assorted.

MACHINE ROOM EQUIPMENT.

Crown Folio Plater	1 No.
Imposing section	mounted with 2 drawers underneath 1 No.
Roller Racks.	1 No. Approximate cost of for
Ink table small size	1 No. Machine room-Rs.5.000/-
Tool Box.	1 No.
Marble stone (For mixing ink)	1 No.

BINDING EQUIPMENT.

Sewing Frames	4 Nos.
Standing Press.	1 No.
Laying Press.	1 No.
Guillotine (Hand Rotary)	1 No.
Board Cutting Machine.	1 No.
Hand lever wire stitching Machine	3/16" capacity 1 No.
Hand numbering machine.	2 Nos.
Tool box.	1 No.
Scissors.	4 Nos.
Backing hammer.	4 Nos.
Backing Boards.	6 pairs.

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Folders.	10 Nos.	
Bod kins.	6 Nos.	
'T' Square.	1 No.	
Paper cutting knife.	3 Nos.	
Needles.	2 pks.	
Ruling machine.	1 No.	Approximate cost for Binding Rs.4,000/-

Total cost Rs.15,000/-

THE FOLLOWING FIRMS MAY BE CONSULTED FOR THE PURCHASE OF PRINTING AND BINDING MACHINES.

1. Parsons and Whittemore, 38, Mount Road, Madras.
2. Wilson and Company, North Railway Terminus Road, Royapuram, Madras.
3. United Printers Syndicate, 42, Broadway, Madras-1.
4. Printers House Ltd., 199, Mount Road, Madras-2.
5. Indo European Machinery Co. Ltd., Khaleeli Mansions, 31/8, Mount Road, Madras-2.
6. Dickinson John and Co. Ltd., Hakim Mansions, Loan Square, Madras-1.
7. Standard Printing Machinery Co. 12/81, Sembudoss Street, Madras.
8. Hamilton Paper Co., 6, Sunkurama Chetty Street, Madras-1.

Copy of reference No.Rc.No.340 B/52 dated 23.5.52 from the Secretary, Board of Secondary Education, Madras, to the Members of the Board of Secondary Education, Madras.

Sub: Schools-Secondary,-Bifurcated Courses- Introduction of Printing Technology-1952-53.

I have the honour to inform you that Printing Technology is proposed to be included as a subject under the diversified courses in selected secondary schools in June 1952. A Sub-Committee was appointed by the Director of Public Instruction, Madras, to prepare the syllabus. I enclose a copy of the minutes of the meeting of the Sub-Committee together with a copy of the syllabus framed by the Committee for your remarks, if any, very urgently on or before 2.6.1952. This subject has to be introduced in certain schools in the beginning of the academic year 1952-53.

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GOVERNMENT OF MADRAS

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ABSTRACT

SECONDARY EDUCATION-Introduction of Printing Technology as a subject of study under the scheme of Bifurcated courses for the S.S.L.C. examination-Syllabus approved.

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